

# United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/691,861	10/24/2003	Cheng Ming Lee	C2P3008-92-043E	6722
46957	7590 02/08/2006		EXAM	INER
CHENG MING LEE 235 CHUNG-HO BOX 8-24			CHARLES, MARCUS	
TAIPEI HSIE			ART UNIT	PAPER NUMBER
TAIWAN			3682	

DATE MAILED: 02/08/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
	10/691,861	LEE, CHENG MING
Office Action Summary	Examiner	Art Unit
	Marcus Charles	3682
The MAILING DATE of this communication ap	ppears on the cover sheet with	the correspondence address
Period for Reply		
A SHORTENED STATUTORY PERIOD FOR REPI WHICHEVER IS LONGER, FROM THE MAILING [ - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the maili earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICA .136(a). In no event, however, may a reply d will apply and will expire SIX (6) MONTHS te, cause the application to become ABAN	TION.  y be timely filed  S from the mailing date of this communication.  IDONED (35 U.S.C. § 133).
Status		
1)⊠ Responsive to communication(s) filed on 24 (	October 2003	
	is action is non-final.	
3) Since this application is in condition for allowa		s, prosecution as to the merits is
closed in accordance with the practice under		
Disposition of Claims		
4)⊠ Claim(s) <u>1 and 2</u> is/are pending in the applica	ation.	
4a) Of the above claim(s) is/are withdra		·
5) Claim(s) is/are allowed.		
6)⊠ Claim(s) <u>1 and 2</u> is/are rejected.		
7) Claim(s) is/are objected to.		
8) Claim(s) are subject to restriction and/	or election requirement.	
Application Papers		
9)⊠ The specification is objected to by the Examin	or	
10)⊠ The drawing(s) filed on 24 October 2003 is/are		ected to by the Evaminer
Applicant may not request that any objection to the		-
Replacement drawing sheet(s) including the correct	•	• •
11) The oath or declaration is objected to by the E		
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign	n priority under 35 H.S.C. S. 14	10(a) (d) ar (f)
a) ☐ All b) ☐ Some * c) ☐ None of:	in priority under 33 0.3.C. § 1	19(a)-(u) or (1).
1. ☐ Certified copies of the priority documen	its have been received	
2. Certified copies of the priority documen		lication No
3. Copies of the certified copies of the price		
application from the International Burea		Jewes III and Haudhar Glage
* See the attached detailed Office action for a list		ceived.
Attachment(s)		
1) X Notice of References Cited (PTO-892)	4) Interview Sum	mary (PTO-413)
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/M	lail Date
<ul> <li>Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date</li> </ul>	5) Notice of Inform 6) Other:	mal Patent Application (PTO-152)

#### **DETAILED ACTION**

This is the first action relating to serial application number 10/691,861, filed 10-24-2003. Claims 1-2 are currently pending.

### **Drawings**

1. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the number of gear is more than three, as in claim 2, must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement-drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filling date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Application/Control Number: 10/691,861 Page 3

Art Unit: 3682

In addition, figures 1-3 should be designated by a legend such as --Prior Art--because only that which is old is illustrated. See MPEP § 608.02(g). Corrected drawings in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Furthermore, it is not proper to label each set of teeth as reference numeral 24, since each gear is different from each other and it be difficult to determine which gear teeth is the reference numeral 24 referring to.

#### Specification

2. The disclosure is objected to because of the following informalities: in page 5, line 1, "26" should be --24-- or an appropriate reference numeral to represent a particular set of teeth on a particular gear. Appropriate correction is required.

## Claim Rejections - 35 USC § 112

- The following is a quotation of the second paragraph of 35 U.S.C. 112:
   The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter, which the applicant regards as his invention.
- 4. Claims 1-2 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. In claim 1 it is unclear if the concave portion is a solid structure or a hollow gap because it appears that the material for the connecting

Art Unit: 3682

sheet comes from the recess portion and it is not clear as to where the material for the concave portion comes from. In addition, it is not clear as to what is meant by unstripped. The process of stripping and unstripping is unclear.

## Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claims 1-2, as understood, are rejected under 35 U.S.C. 103(a) as being unpatentable over Shimano (4,380,445) in view of EP (047927) to Krampera. Shimano discloses an integrally formed gear-set (fig. 1) comprising a plurality of gears such that each gear is formed with a plurality of teeth and a plurality of recess portions being alternatively arranged, and a diameter of a first gear (1) is larger that a diameter of a second gear (2); each gear is vertically extended with protruding rings that are formed by connecting sheets and a plurality of connecting sections (4/5), each connecting sheets being vertically extended from the recess portions. Shimano does not disclose the gear set comprising three sets of teeth. Krampera discloses a gear-set for a bicycle comprising three and more gears such that each descending gear has a smaller diameter than a previous gear. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the Krampera in order to increase of decrease the gear ratio by three or more increments so as to obtain a smooth ratio transition.

Art Unit: 3682

#### Conclusion

- 7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. DE (3810974), FR (2,610,279), Hsu et al. (5,733,215) and Schlanger (6,428,437), JP (09-184775) and Campagnolo (4,324,323) disclose a gearset for a bicycle.
- 8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Marcus Charles whose telephone number is (571) 272-7101. The examiner can normally be reached on Monday-Thursday 7:30 am to 6:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ridley Richard can be reached on (571) 272-6917. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

> Primary Examiner Art Unit 3682

> February 02,2006